

9A 11-262  
Attorney's Docket No. 740145-180  
PDR

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of )  
Takeshi MINOBE et al. ) Group Art Unit: 2828  
Application No.: 09/761,831 ) Examiner: G. Inzirillo  
Filed: January 18, 2001 )  
For: CROSS-FLOW FAN FOR DISCHARGE )  
EXCITED GAS LASER )

**CERTIFICATE OF MAILING**

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K.M. McManus  
K.M. McManus

TECHNOLOGY CENTER 2600  
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**AMENDMENT**

Commissioner for Patents  
Washington, D.C. 20231

Sir:

The following is presented in response to the Office Action mailed July 3, 2002, in connection with the above-captioned patent application.

**In the Specification:**

Please amend paragraph numbers [0032]-[0034], [0038], [0043], & [0045] as follows:

*A*  
[0032] The inventors have conducted various experiments, the results of which revealed that the flow rate is not adversely affected under high-head, low-flow-rate use conditions if a rotating shaft of diameter  $d$  is mounted in a cross-flow fan such that  $d/D \geq 0.07$  ( $d$ : diameter of rotating shaft,  $D$ : fan outer diameter).

*A*  
[0033] In addition, rotating shaft diameter  $d$  exceeding  $d/D \geq 0.13$  would be desirable in the case of a cross-flow fan capable of high-speed rotation used in an excimer laser device in which the cyclic frequency of the laser pulse is high because of the relation with the axial strength.

O.I.P.  
NOV 13 2002  
TENT & TRADEMARK REF

Please type a plus sign (+) inside this box → [+]

PTO/SB/21 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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\$2828

## TRANSMITTAL FORM

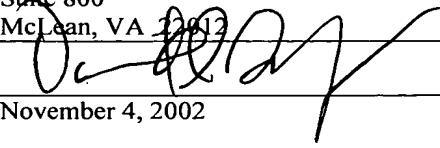
(to be used for all correspondence after initial filing)

		Application Number	09/761,831
		Filing Date	January 18, 2001
		First Named Inventor	Takeshi MINOBE et al.
		Group Art Unit	<del>2828</del>
		Examiner Name	Unknown
Total Number of Pages in This Submission	27	Attorney Docket Number	740145-180

### ENCLOSURES (check all that apply)

<input checked="" type="checkbox"/> Fee Transmittal Form <input checked="" type="checkbox"/> Fee Attached <input checked="" type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input checked="" type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53 <input type="checkbox"/> Response to File Corrected Application Papers <input type="checkbox"/> Submission of Substitute Drawings 5 sheets (Figs. 1-9)	<input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s)	<input type="checkbox"/> After Allowance Communication to Group <input checked="" type="checkbox"/> Form PTO-1449 and copy of reference
Remarks		RECEIVED TECHNOLGY CENTER 2000 NOV 18 2002

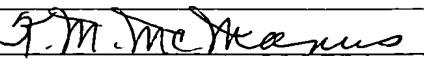
### SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	David S. Safran, Reg. No. 27,997 Nixon Peabody LLP 8180 Greensboro Drive Suite 800 McLean, VA 22102
Signature	
Date	November 4, 2002

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NOV 13 2002

# FEE TRANSMITTAL FOR FY 2002

Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

**TOTAL AMOUNT OF PAYMENT** (\$ 110.00)

Complete if Known	
Application Number	09/761,831
Filing Date	01/18/2001
First Named Inventor	Takeshi MINOBE et al.
Examiner Name	G. Inzirillo
Group Art Unit	2828
Attorney Docket No.	740145-180

**METHOD OF PAYMENT (check all that apply)**

Check  Credit Card  Money Order  Other  None

Deposit Account:

Deposit Account Number 19-2380(740145-180)

Deposit Account Name Nixon Peabody LLP

**The Commissioner is authorized to: (check all that apply)**

Charge fee(s) indicated below  Credit any overpayments  
 Charge any additional fee(s) during the pendency of this application  
 Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

**FEE CALCULATION**

**1. BASIC FILING FEE**

Large Entity Fee Code	Fee (\$)	Small Entity Fee Code	Fee (\$)	Fee Description	Fee Paid
101	740	201	370	Utility filing fee	
106	330	206	165	Design filing fee	
107	510	207	255	Plant filing fee	
108	740	208	370	Reissue filing fee	
114	160	214	80	Provisional filing fee	

**SUBTOTAL (1)** (\$ 0)

**2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE**

		Extra Claims	Fee from below	Fee Paid
Total Claims	4	-20**	= 0	X 18. = 0
Independent Claims	1	-3**	= 0	X 84. = 0
Multiple Dependent			0	X 280. = 0

Large Entity Fee Code	Fee (\$)	Small Entity Fee Code	Fee (\$)	Fee Description
103	18	2202	9	Claims in excess of 20
102	84	2201	42	Independent claims in excess of 3
104	280	2203	140	Multiple dependent claim, if not paid
109	84	2204	42	** Reissue independent claims over original patent
110	18	2205	9	** Reissue claims in excess of 20 and over original patent

**SUBTOTAL (2)** (\$ 0)

\*\*or number previously paid, if greater; For Reissues, see above

**FEE CALCULATION (continued)**

**3. ADDITIONAL FEES**

Large Entity	Small Entity	Fee Description	
Fee Code	Fee (\$)	Fee Code	Fee (\$)
105	130	205	65
127	50	227	25
139	130	139	130
147	2,520	147	2,520
112	920*	112	920*
113	1,840*	113	1,840*
115	110	215	55
116	400	216	200
117	920	217	460
118	1,440	218	720
128	1,960	228	980
119	320	219	160
120	320	220	160
121	280	221	140
138	1,510	138	1,510
140	110	240	55
141	1,280	241	640
142	1,280	242	640
143	460	243	230
144	620	244	310
122	130	122	130
123	50	123	50
126	180	126	180
581	40	581	40
146	740	246	370
149	740	249	370
179	740	279	370
169	900	169	900
Other fee (specify) _____			

\*Reduced by Basic Filing Fee Paid

**SUBTOTAL (3)** (\$ 110.00)

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Name: *K.M. McManus*

Complete (if applicable)	
Name (Print/Type)	David S. Safran
Signature	<i>David S. Safran</i>

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Date November 4, 2002